SEQUENCE LISTING

<110> Childrens Hospital
Schwarz, Margaret A.

<120> METHODS OF FACILITATING VASCULAR GROWTH IN CARDIAC MUSCLE AND METHODS FOR THE PRODUCTION OF RECOMBINANT EMAP II

<130> 9022-20

<140> US 09/733,306
<141> 2000-12-08

<150> US 60/171,874
<151> 1999-12-23

<150> US 60/197,558
<151> 2000-04-17

<150> US 60/231,759
<151> 2000-09-12

<150> US 60/241,138
<151> 2000-10-17

<160> 4

<170> PatentIn version 3.2

<210> 1
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Ala Glu Ala Asp Gln Ile Ile Glu Tyr Leu Lys Gln Gln Val Ala Leu
                20                  25                  30

ctt aag gag aaa gca att ttg cag gca aca atg aga gaa gaa aag aaa      204
Leu Lys Glu Lys Ala Ile Leu Gln Ala Thr Met Arg Glu Glu Lys Lys
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Leu Arg Val Glu Asn Ala Lys Leu Lys Lys Glu Ile Glu Glu Leu Lys
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caa gag ctg att ctg gca gaa att cat aac gga gtg gag caa gtg cgt      300
Gln Glu Leu Ile Leu Ala Glu Ile His Asn Gly Val Glu Gln Val Arg
    65                  70                  75

gtt cga ttg agt act cca ctg cag acg aac tgt act gct tct gaa agt      348
Val Arg Leu Ser Thr Pro Leu Gln Thr Asn Cys Thr Ala Ser Glu Ser
80                  85                  90                  95

gtg gtg cag tct cca tca gta gca acc acc gcc tct cct gct aca aaa      396
Val Val Gln Ser Pro Ser Val Ala Thr Thr Ala Ser Pro Ala Thr Lys
                100                 105                 110

gag cag atc aaa gcg gga gaa gaa aag aag gtg aaa gag aag act gaa      444
Glu Gln Ile Lys Ala Gly Glu Glu Lys Lys Val Lys Glu Lys Thr Glu
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aag aaa gga gag aaa aag gag aag cag cag tcg gca gca gca agt act      492
Lys Lys Gly Glu Lys Lys Glu Lys Gln Gln Ser Ala Ala Ala Ser Thr
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gac tcc aag cct atc gac gca tcg cgt ctg gat ctt cga att ggt tgt      540
Asp Ser Lys Pro Ile Asp Ala Ser Arg Leu Asp Leu Arg Ile Gly Cys
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att gtt act gcc aag aag cac cct gat gca gat tca ctg tat gtg gag      588
Ile Val Thr Ala Lys Lys His Pro Asp Ala Asp Ser Leu Tyr Val Glu
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gaa gta gat gtg gga gaa gca gcc ccg cgc acg gtc gtc agc ggg ctg      636
Glu Val Asp Val Gly Glu Ala Ala Pro Arg Thr Val Val Ser Gly Leu
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gtg aat cat gtt cct cta gaa cag atg caa aat cgt atg gtg gtt tta      684
Val Asn His Val Pro Leu Glu Gln Met Gln Asn Arg Met Val Val Leu
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ctc tgt aat ctg aag cct gca aag atg cgg gga gtt ctg tct caa gcc      732
Leu Cys Asn Leu Lys Pro Ala Lys Met Arg Gly Val Leu Ser Gln Ala
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Met Val Met Cys Ala Ser Ser Pro Glu Lys Val Glu Ile Leu Ala Pro
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Pro Asn Gly Ser Val Pro Gly Asp Arg Ile Thr Phe Asp Ala Phe Pro
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gga gag cct gac aag gag cta aac cct aag aag aag atc tgg gag cag 876
Gly Glu Pro Asp Lys Glu Leu Asn Pro Lys Lys Lys Ile Trp Glu Gln
260 265 270

atc cag cct gac ctg cac acc aat gct gag tgt gtg gcc aca tac aaa 924
Ile Gln Pro Asp Leu His Thr Asn Ala Glu Cys Val Ala Thr Tyr Lys
275 280 285

gga gct ccc ttt gag gtg aag ggg aag gga gtt tgc aga gcc caa acc 972
Gly Ala Pro Phe Glu Val Lys Gly Lys Gly Val Cys Arg Ala Gln Thr
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atg gcc aat agt gga att aaa taagtgctct gtaactgaaa gacattggcg 1023
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35 40 45

Arg Val Glu Asn Ala Lys Leu Lys Lys Glu Ile Glu Glu Leu Lys Gln
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Glu Leu Ile Leu Ala Glu Ile His Asn Gly Val Glu Gln Val Arg Val
65 70 75 80

Arg Leu Ser Thr Pro Leu Gln Thr Asn Cys Thr Ala Ser Glu Ser Val
85 90 95

Val Gln Ser Pro Ser Val Ala Thr Thr Ala Ser Pro Ala Thr Lys Glu
100 105 110

Gln Ile Lys Ala Gly Glu Glu Lys Lys Val Lys Glu Lys Thr Glu Lys
115 120 125

Lys Gly Glu Lys Lys Glu Lys Gln Gln Ser Ala Ala Ala Ser Thr Asp
130 135 140

Ser Lys Pro Ile Asp Ala Ser Arg Leu Asp Leu Arg Ile Gly Cys Ile
145 150 155 160

Val Thr Ala Lys Lys His Pro Asp Ala Asp Ser Leu Tyr Val Glu Glu
165 170 175

Val Asp Val Gly Glu Ala Ala Pro Arg Thr Val Val Ser Gly Leu Val
180 185 190

Asn His Val Pro Leu Glu Gln Met Gln Asn Arg Met Val Val Leu Leu
195 200 205

Cys Asn Leu Lys Pro Ala Lys Met Arg Gly Val Leu Ser Gln Ala Met
210 215 220

Val Met Cys Ala Ser Ser Pro Glu Lys Val Glu Ile Leu Ala Pro Pro
225 230 235 240

Asn Gly Ser Val Pro Gly Asp Arg Ile Thr Phe Asp Ala Phe Pro Gly
245 250 255

Glu Pro Asp Lys Glu Leu Asn Pro Lys Lys Lys Ile Trp Glu Gln Ile
260 265 270

Gln Pro Asp Leu His Thr Asn Ala Glu Cys Val Ala Thr Tyr Lys Gly
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Ala Asn Ser Gly Ile Lys
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<213> Homo sapiens

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            20                  25                  30

Lys Glu Lys Ala Ile Leu Gln Ala Thr Leu Arg Glu Glu Lys Lys Leu
        35                  40                  45

Arg Val Glu Asn Ala Lys Leu Lys Lys Glu Ile Glu Glu Leu Lys Gln
    50                  55                  60

Glu Leu Ile Gln Ala Glu Ile Gln Asn Gly Val Lys Gln Ile Ala Phe
65                  70                  75                  80

Pro Ser Gly Thr Pro Leu His Ala Asn Ser Met Val Ser Glu Asn Val
                85                  90                  95

Ile Gln Ser Thr Ala Val Thr Thr Val Ser Ser Gly Thr Lys Glu Gln
            100                 105                 110

Ile Lys Gly Gly Thr Gly Asp Glu Lys Lys Ala Lys Glu Lys Ile Glu
        115                 120                 125

Lys Lys Gly Glu Lys Lys Glu Lys Lys Gln Gln Ser Ile Ala Gly Ser
    130                 135                 140

Ala Asp Ser Lys Pro Ile Asp Val Ser Arg Leu Asp Leu Arg Ile Gly
145                 150                 155                 160

Cys Ile Ile Thr Ala Arg Lys His Pro Asp Ala Asp Ser Leu Tyr Val
                165                 170                 175

Glu Glu Val Asp Val Gly Glu Ile Ala Pro Arg Thr Val Val Ser Gly
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Leu Val Asn His Val Pro Leu Glu Gln Met Gln Asn Arg Met Val Ile
        195                 200                 205
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Leu Leu Cys Asn Leu Lys Pro Ala Lys Met Arg Gly Val Leu Ser Gln
    210                 215                 220

Ala Met Val Met Cys Ala Ser Ser Pro Glu Lys Ile Glu Ile Leu Ala
225                 230                 235                 240

Pro Pro Asn Gly Ser Val Pro Gly Asp Arg Ile Thr Phe Asp Ala Phe
                245                 250                 255

Pro Gly Glu Pro Asp Lys Glu Leu Asn Pro Lys Lys Lys Ile Trp Glu
            260                 265                 270

Gln Ile Gln Pro Asp Leu His Thr Asn Asp Glu Cys Val Ala Thr Tyr
        275                 280                 285

Lys Gly Val Pro Phe Glu Val Lys Gly Lys Gly Val Cys Arg Ala Gln
    290                 295                 300

Thr Met Ser Asn Ser Gly Ile Lys
305                 310
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